

Suraj Kumar Bera

surajkumarbera09@gmail.com | 9062686856 | [Github](#) | [LinkedIn](#) | [LeetCode](#) | [codechef](#)

EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS

SOFTWARE ENGINEER AUG 2022 – PRESENT | BANGALORE

- Working as a Full Stack Software Engineer in CLaims Processing Team (TPS), using **C++** and **C#**.
- Managed the Real Time Edits System (RTGE), overseeing over **1.8 million** claims transactions daily.
- Redesigned the Edits-Engine service by implementing multithreading, **eliminating downtime** (previously 60-90 minutes per day) and boosting **throughput by 30%**
- Automated the EP Application, increasing Edits Promotion frequency by **500%** (from once a day to six times per day), enabling rapid adoption of new rules for edits.
- Optimized PowerTool's backend services, resulting in a **20%** improvement in response times.
- Optimized the Clientsite Search latency, achieving an impressive **< 1-second window**, down from the 3-4 seconds.
- Optimized Algorithms, accelerating Claims Validation time by over **60%** (from 300 ms to ≤ 100 ms).
- **Tech Stack** C++, C#, DotNet, SQL Server, Azure, Chef, TFS

INTERN

MAR 2021 – SEP 2021 | REMOTE

- Developed an eCommerce Web Site MediX using DotNet following SOLID design principles and Agile Methodology
- Deployed it in **Azure**.
- **Tech stacks** - DotNet, MySQL Server, Bootstrap, Azure

PROJECTS

ADVANCED MACHINE LEARNING WEB APP FOR LEAF DISEASE DETECTION

Jan 2022 – Apr 2022 | MAKAUT University | Final Year Project

- Engineered a sophisticated web application leveraging **machine learning** to detect plant leaf diseases, providing farmers with precise and timely diagnostic insights.
- **Conducted research** on plant pathology and machine learning, implementing a **CNN** trained on a large dataset of leaf images, achieving over **90%** accuracy in detecting multiple diseases
- **Tech stacks** - Python, Jupyter Notebook, Numpy, Panda, Django, Keras, HTML, CSS, JavaScript, Bootstrap

SEMANTIC SYNTAX CHECKER

Jan 2021 – Feb 2021 | MAKAUT University

- Implemented a Console Application for a custom programming language as a part of Compiler design Course work
- Designed & Implemented the Grammar using **C**.

DAILY BUDGET MONITOR

- Developed a Web Application to keep record of personal expenses on Daily basis.
- Used three tier architecture
- **Tech Stack** JS, Node.JS, MongoDB, HTML, CSS

EDUCATION

MAKAUT UNIVERSITY

B.TECH. IN COMPUTER SCIENCE
AND ENGINEERING

2022 | Kolkata

CGPA: 9.48 / 10.00

SKILLS

PROGRAMMING LANGUAGES

C++, C#, SQL, Python
JavaScript ES6, Type Script
HTML 5, CSS 3

AI/ML LIBRARIES

Numpy, Panda, Matplotlib

FRAMEWORKS

DotNet(MVC, WCF, API, ASP.Net),
NodeJS, Angular

DATABASE

RDBMS, NoSQL, SQL Server, Redis,
MongoDB

CLOUD TECHNOLOGIES

Azure, Azure DevOps

VERSION CONTROL SYSTEM

Git, GitHub, TFS

ADVANCED TECHNICAL SKILLS

Data structure and Algorithms
OOPs, DBMS, SOLID Principal
Multi-threading and Concurrency
Distributed System, Micro services

TOOLS

Visual Studio, VS Code

ADDN. COURSES

- Azure Fundamental (AZ 900)
[Udemy(Microsoft Certified)]
- Azure DevOps Fundamental [Udemy]
- Introduction to Generative AI [Udemy]

ACHIEVEMENTS

- Cheers Team award, 2022 (Cognizant)
- Finalist, Neural Hack Season 5 (National Level), 2021 (Virtusa)
- CodeChef Starters 13 (Division 2):
Global Rank 773
- September Cook-Off 2021 (Division 3):
Global Rank 281
- Secured First Runner-up, eYantra
National Robotics Competition, 2018 (IIT Bombay)